



# SUPCELION LITHIUM



## SUPCELION LiFePO4 Smart BMS 12.8V 100Ah

Compared with traditional batteries, our lithium iron phosphate batteries (LiFePO4) has many advantages:

- 5-year manufacturer's warranty.
- The safest technology, without risk of fire or explosion.
- Long service life.
- Constantly improving storage capacity.
- High stability even under extreme loads.
- No memory effect, no need for full charge and discharge cycles.
- High performance even under extreme conditions.
- Deep and regular discharge and charging efficiency.
- Small size and light weight.

### Integrated Bluetooth 4.0 monitoring

- You have all important battery data always on your smartphone or tablet.
- The application displays the data in real time.

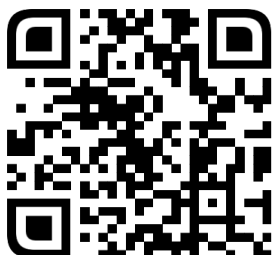
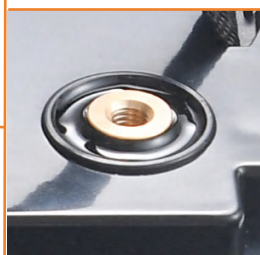
### BUILT IN HANDLE

For easy carrying.



### PROTECT YOUR INVESTMENT

SUPCELION LITHIUM has a field serviceable fuse to protect your investment from user and application abuse or misuse.

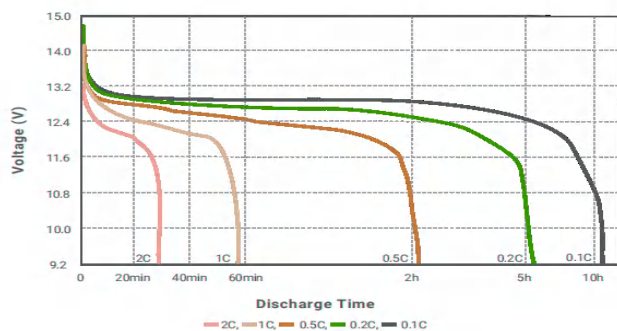


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SUPCELION ERNERGY MAKES LIFE EASY

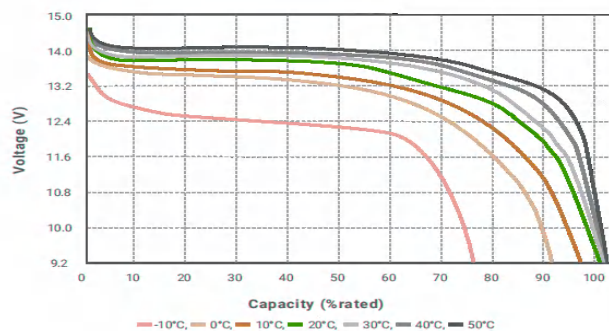
## Different Rate Discharge Curve

Different Rate Discharge Curve @ 25°C



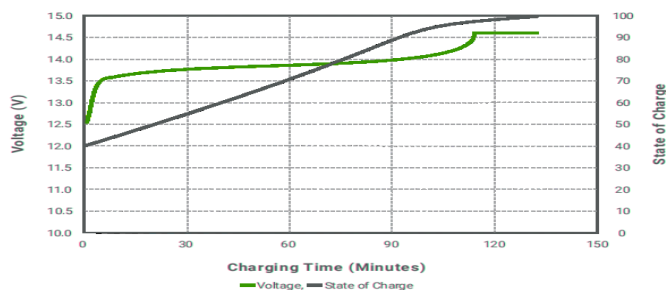
## Different Temperature Discharge Curve

Different Temperature Discharge Curve @ 0.5



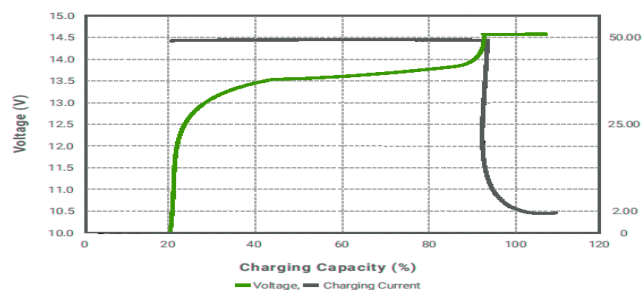
## Characteristics Curve

State of Charge Curve @0.5C 25°C



## Characteristics Curve

Charging Characteristics @0.5C 25°C



Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	100Ah
	Energy	1280 Wh
	Internal Resistance	≤15mΩ
	Cycle Life	>4000 cycles
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6V±0.2V
	Charge Mode	CCCU/IU
	Charger Current	20A
	Max. Charge Current	50A
	Charge Cut-off Voltage	14.6
Standard Discharge	Continuous Current	150A
	Max. Pulse Current	310A(200~500ms)
	Discharge Cut -off Voltage	10V
Environmental	Charge Temperature	0°C to 55°C
	Discharge Temperature	-20°C to 60°C
	Storage Temperature	-5°C to 35°C
	Water Dust Resistance	IP65
Mechanical	Cell & Method	Can be connected in 4 parallel and 4 series
	Plastic Case	ABS
	Dimensions (mm)	260*170*214mm ( 260*170*210mm Excluding terminal )
	Weight (kg)	10 kg
	Terminal	M8
Features	Bluetooth 4.0 with smartphone app	
	Series and parallel connection	

